## CLAIMS

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- 1/ A composition comprising:
- a) a copolymer obtained from a thermoplastic or thermosetting resin and containing at least one alkoxysilane; and
- b) a mineral filler selected from compounds of B, Al, Ti, Zn, Zr, Cr, Fe, and silicates, and mixtures thereof.
- 2/ A composition according to claim 1, in which the thermoplastic or thermosetting resin is selected from the group comprising: polyamide imide (PAI), polyester imide (PEI), polyimide (PI), polyester (PE), polyurethane (PU), polyvinylacetal (PVA), and mixtures thereof.
  - 3/ A composition according to claim 1, in which the copolymer is obtained by adding 10% to 50%, and preferably 20% to 40% by weight of alkoxysilane.
- 4/ A composition according to claim 1, in which the alkoxysilane is selected from tetraalkoxysilanes such as tetraethoxysilane (TEOS), and trialkoxysilanes such as trimethoxysilane and aminopropyl-trimethoxysilane.
- 25 5/ A composition according to claim 1, in which the mineral filler is selected from oxides and nitrides of B, Al, Ti, Zn, Zr, Cr, and Fe, and is preferably titanium dioxide.
- 30 6/ A composition according to claim 1, in which the mineral filler is selected from silicates such as clays, nanocomposite clays, and mica.
- 7/ A composition according to claim 1, comprising 2% to 35 20% by weight, and preferably 5% to 15% by weight of mineral filler.

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- 8/ A composition according to claim 1, in which the mineral filler has a specific surface area greater than  $40 \text{ m}^2/\text{g}$ .
- 5 9/ An insulation varnish for a winding wire, the varnish comprising a composition in accordance with claim 1.
  - 10/ A method of manufacturing a composition in accordance with claim 1, the method comprising the following steps:
- · copolymerizing the thermoplastic or thermosetting resin with at least one alkoxysilane;
  - $\cdot$  adding a mineral filler selected from compounds of B, Al, Ti, Zn, Zr, Cr, Fe, silicates, and mixtures thereof; and
- 15 · homogenizing.
  - 11/ A method according to claim 10, in which synthesis is performed in a solvent selected from ortho-cresyl, metacresyl, para-cresyl, cresylic acid, N-methylpyrrolidone, dimethylacetamide (DMAC), and mixtures thereof.
  - 12/ A method according to claim 10, in which the reaction is performed in the presence of a catalyst selected from pTSA, dibutyltin, and a polysiloxane.
  - 13/ A method of manufacturing a winding wire, the method comprising the following steps:
    - · applying a varnish comprising a composition in accordance with claim 1 on the wire; and
- 30 · setting the varnish.
  - 14/ A winding wire obtained by the method of claim 13.
- 15/ A coil comprising a conductor wire covered in a
  varnish comprising a composition in accordance with claim
  1.